

U.S. ENVIRONMENTAL PROTECTION AGENCY
 POLLUTION/SITUATION REPORT
 Durable Coatings - Removal Polrep
 Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: **POLREP #5**
Final
Durable Coatings
C521
Northville, MI
Latitude: 42.4079705 Longitude: -83.4691435

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From: Jeffrey Lippert, On-Scene Coordinator

Date: 12/7/2011

Reporting Period: 10/19/2011 - 12/7/2011

1. Introduction

1.1 Background

Site Number:	C521	Contract Number:	
D.O. Number:		Action Memo Date:	8/25/2011
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action,
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	9/8/2011	Start Date:	9/8/2011
Demob Date:	11/23/2011	Completion Date:	11/23/2011
CERCLIS ID:	MIN000510557	RCRIS ID:	
ERNS No.:	✓	State Notification:	Yes
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

Time-Critical Removal Action

1.1.2 Site Description

The site consists of a 4.15-acre parcel bordered by Northville Road and Hines park to the west, commercial properties to the north and south, and railroad tracks and residential homes to the east. The site is the former location of Durable Coatings Corporation and includes a building with an office area and a number of other additions totaling

57,864 square feet. The Durable Coatings Corporation used the site for electro-coating services, including rust-preventative coating, corrosion-resistant coating, and metal finishing services. The site is no longer operational.

1.1.2.1 Location

The site is located at 16500-16580 Northville Road in Northville, Wayne County, Michigan 48168 in a mixed residential/commercial/industrial area. Coordinates for the site are 42.3945 degrees north and -83.4681 degrees west. The Middle Rouge River is immediately south of the site and is approximately 60 feet from the building. Several other water bodies are located within a one-mile radius of the site, including Waterford Pond and Phoenix Lake. Meads Middle School is located approximately 750 feet to the northeast of the site.

1.1.2.2 Description of Threat

The Toxicity Characteristic Leaching Procedure (TCLP) results for a drum that existed at the site which contained methyl ethyl ketone (MEK) were 17,000 milligrams per liter (mg/L) which is 85 times above what is characteristically hazardous for MEK. This same drum had a flash point of 50 degrees Fahrenheit (°F); 90 degrees F below what is characteristically hazardous. In addition, a corrosive substance in a drum that was at the site had a pH of 14.0 standard units (S.U.) A drum that was marked as "hydrochloric acid" produced visible acid vapor fumes when opened. Fumes from this drum produced a pH of zero S.U. on field screening equipment.

The site building is in a state of disrepair. Numerous holes in the roof and walls of the building allow precipitation to enter. This precipitation could have led to the further degradation of site containers and contribute to the likelihood of release. Similarly, gas service has been cut-off to the building and no heat is available. Freezing of the chemicals on site would have led to expansion and bulging of the containers and increased the likelihood of release. Lastly, the building currently sits vacant and perimeter fencing is incomplete which had led to trespassers. There were visual signs of trespassing throughout the property. Trespassers had the potential to cause an accidental or purposeful release to the environment. The Middle Rouge River lies approximately 60 feet from the building.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

During a initial site visit with MDEQ, U.S. EPA observed the worker wearing no personal protective equipment (PPE), signs of liquid waste on his hands and clothes, and was smoking cigarettes. When questioned, the worker stated that he had been transferring contents of containers into other containers and that he had no Occupational Safety and Health Administration (OSHA) hazardous waste training. Multiple signs of spills were observed in the building including puddles and pools of liquid waste on the floor.

U.S. EPA conducted a site assessment on June 17, 2011 of Durable Coatings. U.S. EPA documented the presence of over 390 containers, including drums, vats, totes, tanks, compressed gas cylinders, and other miscellaneous containers. Labels on some containers indicated the potential presence of hydrochloric, acetic, nitric, sulfuric, and phosphoric acids, sodium hydroxide; potassium hydroxide; n-methylene chloride; dichloromethane; propane; oxygen; acetylene; glycol ether; and cellulose solvent.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

U.S. EPA met MDEQ at the Durable Coatings Site on May 19, 2011 to conduct a site walk-through. U.S. EPA observed numerous drums, vats, totes, tanks, compressed gas cylinders, and other miscellaneous containers strewn throughout the site at that time. A large number of the containers were observed to be unlabeled and unsecured. One worker was on site. The worker was wearing no PPE, had visual signs of waste on his hands and clothes, had no OSHA hazardous waste training, and was smoking cigarettes. Multiple signs of spills were observed in the building including puddles and pools of liquid waste on the floor. The worker stated that he was preparing the waste for disposal and stated that he had been transferring contents of containers into other containers.

U.S. EPA conducted a site assessment on June 17, 2011 of Durable Coatings. U.S. EPA documented the presence of over 390 containers, including drums, vats, totes, tanks, compressed gas cylinders, and other miscellaneous containers. Labels on some containers indicated the potential presence of hydrochloric, acetic, nitric, sulfuric, and phosphoric acids, sodium hydroxide; potassium hydroxide; n-methylene chloride; dichloromethane; propane; oxygen; acetylene; glycol ether; and cellulose solvent.

2.1.2 Response Actions to Date

Between the dates of October 19, 2011 and November 10, 2011, U.S. EPA sent four roll-off boxes of non-hazardous solids to Woodland Meadows Landfill for disposal. On November 1, 2011 5,950 gallons of non-hazardous liquids were sent for disposal. Final disposal of remaining hazardous and non hazardous materials was conducted on November 23, 2011. No further known hazardous waste exists at the site. For final quantities see the Progress Metrics table below.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

The Enforcement Team continues to look at PRPs. General Notice Letters have been sent to two PRPs along with 104e letters. Means of reimbursing U.S. EPA's cleanup costs are being looked into.

2.1.4 Progress Metrics

Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal
R-22 Refrigerant	Cylinders	2	N/A	Recycled at Golden Refrigerant, Livonia, MI	
R-22 Refrigerant	Pounds	22	N/A	Recycled at Golden Refrigerant, Livonia, MI	
Non-Hazardous Solids	Tons	3.22	T08958		Waste Management Woodland Meadows Landfill, Wayne, Michigan
Non-Hazardous Solids	Tons	4.31	T08959		Waste Management Woodland Meadows Landfill, Wayne, Michigan
Non-Hazardous Solids	Tons	4.57	T08960		Waste Management Woodland Meadows Landfill, Wayne, Michigan
Non-Hazardous Solids	Tons	11.59	T08961		Waste Management Woodland Meadows Landfill, Wayne, Michigan
Non-Hazardous Solids	Tons	9.83	T08962		Waste Management Woodland Meadows Landfill, Wayne, Michigan
Non-Hazardous Solids	Tons	12.64	T08963		Waste Management Woodland Meadows Landfill, Wayne, Michigan
Non-Haz Liquid	Gallons	5050	4038202		Waste Management Venice Park
Non-Haz Liquid	Gallons	900	4038201		Waste Management Venice Park
Hazardous Liquid (Nitric Acid)	Gallons	30	008968858	H077	Dynecol, Inc Detroit, MI
Hazardous Liquid (Sulfuric Acid)	Gallons	150	008968858	H077	Dynecol, Inc Detroit, MI
Hazardous Liquid (Hydroxide)	Gallons	5	008968858	H141	Dynecol, Inc Detroit, MI
Non-Hazardous Waste Liquid	Gallons	20	008968858	H111	Dynecol, Inc Detroit, MI
Waste Aerosols (Flammable)	Pounds	20	008968856	H141	Dynecol, Inc Detroit, MI

Flammable Liquids (Stoddard Solvents)	Gallons	100	008968856	H141	Dynecol, Inc Detroit, MI
Flammable Liquids (Methyl Ethyl Ketone)	Gallons	250	008968856	H141	Dynecol, Inc Detroit, MI
Oxidizing Liquid (Sodium Nitrite)	Gallons	30	008968856	H141	Dynecol, Inc Detroit, MI
Non-Hazardous (Waste Liquid)	Gallons	35	008968859	H111	Dynecol, Inc Detroit, MI
Non-Hazardous (Waste Liquid)	Gallons	10	008968859	H111	Dynecol, Inc Detroit, MI
Non-Hazardous (Waste oils)	Gallons	450	008968859		Dynecol, Inc Detroit, MI
Universal Waste (Fluorescent Lamps)	Pounds	20	008968859		Dynecol, Inc Detroit, MI
Flammable Liquids (Sodium Hydroxide)	Pounds	200	009653503	H141	Dynecol, Inc Detroit, MI
Corrosive Liquids (Hydrochloric Acid)	Gallons	15	009653503	H070	Dynecol, Inc Detroit, MI
Glacial Acetic Acid	Gallons	100	008968857	H141	Dynecol, Inc Detroit, MI
Corrosive Liquids (Phosphoric Acid)	Gallons	550	008968857	H077	Dynecol, Inc Detroit, MI
Ferric Chloride	Gallons	50	008968857	H077	Dynecol, Inc Detroit, MI
Corrosive Liquids (Hydrochloric Acid)	Gallons	100	008968857	H077	Dynecol, Inc Detroit, MI

R5 Priorities Summary		
This is an Integrated River Assessment. The numbers should overlap.	Miles of river systems cleaned and/or restored	N/A
	Cubic yards of contaminated sediments removed and/or capped	N/A
	Gallons of oil/water recovered	N/A
	Acres of soil/sediment cleaned up in floodplains and riverbanks	N/A
Stand Alone Assessment	Acres Protected	4
	Number of contaminated residential yards cleaned up	N/A
	Human Health Exposures Avoided	373
	Number of workers on site	6

2.2 Planning Section

2.2.1 Anticipated Activities

A final report will be issued by START including waste totals and a work summary. The report will be posted to this website in the Documents Section.

2.2.1.1 Planned Response Activities

None.

2.3 Logistics Section

Not Applicable.

2.4 Finance Section**2.4.1 Narrative**

An Action Memorandum was signed by the Superfund Division Director on August 25, 2010 to conduct a fund-lead time-critical removal action at the site. The cleanup is complete. A cost summary table is listed below.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	\$200,000.00	\$100,503.97	\$99,496.03	49.75%
TAT/START	\$37,000.00	\$29,083.00	\$7,917.00	21.40%
Intramural Costs				
USEPA - Direct	\$81,380.00	\$0.00	\$81,380.00	100.00%
USEPA - InDirect	\$74,000.00	\$0.00	\$74,000.00	100.00%
Total Site Costs	\$392,380.00	\$129,586.97	\$262,793.03	66.97%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff**2.5.1 Safety Officer**

Ed Kiernicki

2.6 Liaison Officer

Not Applicable.

2.7 Information Officer**2.7.1 Public Information Officer**

Not Applicable.

2.7.2 Community Involvement Coordinator

Not Applicable.

3. Participating Entities**3.1 Unified Command**

Unified Command is not utilized at the site.

3.2 Cooperating Agencies

MDEQ

YCUA

4. Personnel On Site

ERRS - 4

START - 1

U.S. EPA - 1

5. Definition of Terms

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
RCRA - Resource Conservation and Recovery Act
CIC - Community Involvement Coordinator
MDEQ - Michigan Department of Environmental Quality
NCP - National Contingency Plan
OSC - On Scene Coordinator
START - Superfund Technical Assessment and Response Team
ppb - parts per billion
ppm - parts per million
RCRA - Resource Conservation and Recovery Act
U.S. EPA - United States Environmental Protection Agency
VOC - Volatile organic compound
WESTON - Weston Solutions, Inc

6. Additional sources of information

6.1 Internet location of additional information/report

Not Applicable.

6.2 Reporting Schedule

The cleanup is complete. A final report will be completed by START and posted to this website in the Documents Section.

7. Situational Reference Materials

Material Safety Data Sheets





